

What is claimed is:

1. An information reproducing apparatus

comprising:

5 a storing means for storing a sequentially  
supplied series of broadcast information including  
commercial broadcast information linked with a supplied  
sequence;

10 a commercial detecting means for detecting the  
commercial broadcast information from said broadcast  
information based on predetermined identification  
information contained in said broadcast information;

a reproducing means for reproducing broadcast  
information stored in said storing means; and

15 a controlling means for sequentially reading  
said detected commercial broadcast information from said  
storing means and making said reproducing means reproduce  
the same and, when said detected commercial broadcast  
information is all reproduced, sequentially reading  
20 another series of broadcast information other than the  
related commercial broadcast information from said  
storing means and making said reproducing means reproduce  
it in accordance with said supplied sequence.

2. An information reproducing apparatus as set  
forth in claim 1, wherein said controlling means  
25 generates a viewing confirmation message at least one

time, makes said reproducing means reproduce it, and  
suspends a read operation of the broadcast information  
from said storing means at the time of reproduction of  
said commercial broadcast information and restarts the  
5 read operation of said broadcast information when a  
response signal with respect to the related viewing  
confirmation message is detected.

3. An information reproducing apparatus as set  
forth in claim 1, wherein said controlling means  
10 sequentially reads said detected commercial broadcast  
information from said storing means in accordance with a  
sequence by which said commercial broadcast information  
was supplied.

4. An information reproducing apparatus as set  
15 forth in claim 1, wherein said controlling means  
sequentially reads commercial broadcast information  
specified by an address of a head part stored in said  
storing means and a data length designated in said  
identification information from said storing means.

20 5. An information reproducing apparatus as set  
forth in claim 1, wherein said commercial detecting means  
detects said commercial broadcast information based on  
electronic watermark information included in image data  
of said broadcast information.

25 6. An information reproducing apparatus as set

forth in claim 1, wherein said commercial detecting means detects scene changes where a reproduced image of said broadcast information changes discontinuously and detects said commercial broadcast information based on a time interval at which said detected scene changes occur in said reproduced image.

7. An information reproducing apparatus as set forth in claim 1, wherein said commercial detecting means detects said commercial broadcast information based on fluctuations in the reproduced sound level of said broadcast information.

8. An information reproducing apparatus comprising:

a storing means for storing a sequentially supplied series of broadcast information including commercial broadcast information linked with a supplied sequence;

a commercial detecting means for detecting the commercial broadcast information from said broadcast information based on predetermined identification information contained in said broadcast information;

a reproducing means for reproducing the broadcast information stored in said storing means;

an inputting means for inputting a commercial designation signal for designating the commercial

broadcast information to be reproduced at said reproducing means; and

5 a controlling means for sequentially reading said series of broadcast information from said storing means and making said reproducing means reproduce the same in accordance with said supplied sequence, generating image information corresponding to said detected commercial broadcast information and combining the same with the reproduced image of said series of broadcast information, and making said reproducing means reproduce it, and, when said commercial designation signal is input, reading the commercial broadcast information designated by the related commercial designation signal from said storing means and making  
10 said reproducing means reproduce it, and, in the following reproduction of said series of broadcast information, reproducing the broadcast information while not reproducing, but skipping over the commercial broadcast information which has been already reproduced.

20 9. An information reproducing apparatus as set forth in claim 8, wherein said controlling means suspends reproduction of said series of broadcast information and makes said reproducing means reproduce designated commercial broadcast information when said commercial  
25 designation signal is input.

10. An information reproducing apparatus as set forth in claim 8, wherein said controlling means combines a still image of a reproduced image of said detected commercial broadcast information and a reproduced image of said series of broadcast information and makes said reproducing means reproduce the same.

11. An information reproducing apparatus as set forth in claim 10, wherein said controlling means erases the still image of said commercial broadcast information from a display area of said reproducing means in the subsequent reproduction of the series of broadcast information when commercial broadcast information has been reproduced in accordance with said commercial designation signal.

12. An information reproducing apparatus as set forth in claim 10, wherein said controlling means changes the still image of said commercial broadcast information to a predetermined image showing the commercial broadcast information finished being reproduced in the subsequent reproduction of the series of broadcast information when commercial broadcast information has been reproduced in accordance with said commercial designation signal.

13. An information reproducing apparatus as set forth in claim 8, wherein said controlling means sequentially reads commercial broadcast information

specified by an address of a head part stored in said storing means and a data length designated in said identification information from said storing means.

14. An information reproducing apparatus as set  
5 forth in claim 8, wherein said commercial detecting means detects said commercial broadcast information based on electronic watermark information included in image data of said broadcast information.

15. An information reproducing apparatus as set  
10 forth in claim 8, wherein said commercial detecting means detects scene changes where a reproduced image of said broadcast information changes discontinuously and detects said commercial broadcast information based on a time interval at which said detected scene changes occur in  
15 said reproduced image.

16. An information reproducing apparatus as set  
forth in claim 8, wherein said commercial detecting means detects said commercial broadcast information based on  
fluctuations in the reproduced sound level of said  
20 broadcast information.

17. An information reproduction method including:  
a storage step for storing a sequentially  
supplied series of broadcast information linked with a  
supplied sequence,  
25 a commercial detection step for detecting

commercial broadcast information from said broadcast  
information based on predetermined identification  
information contained in said broadcast information, and  
a reproduction step for extracting and

5 reproducing said detected commercial broadcast  
information from the broadcast information stored at said  
storage step and, when said detected commercial broadcast  
information is all reproduced, sequentially extracting  
and reproducing another series of broadcast information  
10 other than the related commercial broadcast information  
from the broadcast information stored at said storage  
step in accordance with said supplied sequence.

18. An information reproduction method as set forth  
in claim 17, wherein said reproduction step is for  
15 generating and reproducing a viewing confirmation message  
at least one time and suspending the reproduction of said  
broadcast information at the time of reproduction of said  
commercial broadcast information and restarting the  
reproduction of said broadcast information when a  
20 response signal with respect to the related viewing  
confirmation message is detected.

19. An information reproduction method as set forth  
in claim 17, wherein said reproduction step is for  
reproducing said detected commercial broadcast  
25 information in accordance with a sequence by which said

commercial broadcast information was supplied.

20. An information reproduction method as set forth  
in claim 17, wherein said commercial detection step is  
for detecting said commercial broadcast information based  
5 on electronic watermark information included in image  
data of said broadcast information.

21. An information reproducing method as set forth  
in claim 17, wherein said commercial detection step is  
for detecting scene changes where a reproduced image of  
10 said broadcast information changes discontinuously and  
detecting said commercial broadcast information based on  
a time interval at which said detected scene changes  
occur in said reproduced image.

22. An information reproducing method as set forth  
15 in claim 17, wherein said commercial detection step is  
for detecting said commercial broadcast information based  
on fluctuations in the reproduced sound level of said  
broadcast information.

23. An information reproduction method including:  
20 a storage step for storing a sequentially  
supplied series of broadcast information linked with a  
supplied sequence,

a commercial detection step for detecting  
commercial broadcast information from said broadcast  
25 information based on predetermined identification



information contained in said broadcast information, and

a reproduction step for sequentially extracting and reproducing said series of broadcast information from among the broadcast information stored at said storage

5 step in accordance with said supplied sequence and, at the same time, generating image information corresponding to said detected commercial broadcast information and

combining the same with the reproduced image of said series of broadcast information, and, when said

10 commercial designation signal is input, extracting and reproducing the commercial broadcast information designated by the commercial designation signal from the broadcast information stored at said storage step and, in the following reproduction of said series of broadcast

15 information, reproducing the broadcast information while not reproducing, but skipping the already reproduced commercial broadcast information.

24. An information reproduction method as set forth in claim 23, wherein said reproduction step is for  
20 suspending reproduction of said series of broadcast information and reproducing designated commercial broadcast information when said commercial designation signal is input.

25 25. An information reproduction method as set forth in claim 23, wherein said reproduction step is for

combining a still image of a reproduced image of said detected commercial broadcast information and a reproduced image of said series of broadcast information.

26. An information reproduction method as set forth  
5 in claim 25, wherein said reproduction step is for erasing the still image of said commercial broadcast information from a display area of a reproduced image in the subsequent reproduction of the series of broadcast information when commercial broadcast information has  
10 been reproduced in accordance with said commercial designation signal.

27. An information reproduction method as set forth in claim 25, wherein said reproduction step is for changing the still image of said commercial broadcast  
15 information to a predetermined image showing the commercial broadcast information finished being reproduced in the subsequent reproduction of the series of broadcast information when commercial broadcast information has been reproduced in accordance with said  
20 commercial designation signal.

28. An information reproduction method as set forth in claim 23, wherein said commercial detection step is for detecting said commercial broadcast information based on electronic watermark information included in image  
25 data of said broadcast information.

29. An information reproducing method as set forth  
in claim 23, wherein said commercial detection step is  
for detecting scene changes where a reproduced image of  
said broadcast information changes discontinuously and  
5 detecting said commercial broadcast information based on  
a time interval at which said detected scene changes  
occur in said reproduced image.

30. An information reproducing method as set forth  
in claim 23, wherein said commercial detection step is  
10 for detecting said commercial broadcast information based  
on fluctuations in the reproduced sound level of said  
broadcast information.

2025-07-09 10:00:00